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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/738,322	12/16/2003	Richard M. Fastow	AMD-H0563	7930
75	90 07/31/2006		EXAM	INER
WAGNER, MURABITO & HAO LLP			WOJCIECHOWICZ, EDWARD JOSEPH	
Third Floor				
Two North Market Street			ART UNIT	PAPER NUMBER
San Jose, CA 95113			2815	

DATE MAILED: 07/31/2006 . .

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)				
Office Action Summary		10/738,322	FASTOW ET AL.				
		Examiner	Art Unit				
	•						
	The MAILING DATE of this communication ap	Edward Wojciechowicz	2815				
Period fo		opears on the cover sheet with the o	correspondence address				
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING [Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statution exply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tild d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)[\	Responsive to communication(s) filed on 111	May 2006					
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ا ا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠ Claim(s) <u>1,3-7 and 15-22</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1,3-7 and 15-22</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/	or election requirement.					
	•	•					
_	on Papers						
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
3	see the attached detailed Office action for a lis	at of the certified copies not receive	ea.				
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summar					
	Paper No(s)/Mail Date. Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152) Notice of Information Disclosure Statement Notice of Information Disclosure Stateme						
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	6) Other:	. atom replication (i 10-102)				
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-7 and 15-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The most recent amendment to independent claims 1 and 15 raise questions at to the specific structure of the invention. That is, while it has been argued that the bit lines are completely buried within and surrounded by the substrate, the amendment to claim 15 requires that only a "length" of each bit line is completely buried within and surrounded by the substrate. This recitation implies that portions of the bit lines may not be completely buried an surrounded by the substrate. Similarly, it appears that the claim 1 recitation could be interpreted as requiring that only a "region" of the bit line is actually enclosed within and surrounded by the substrate.

The amendment to claim 15, in particular, rather than clarifying applicants' intended meaning of such terms as "buried" and "surrounded", only raises additional questions as to the structure of the invention. The examiner believes that these issues could be resolved with an unequivocal recitation to the effect that that *all* parts of the bit lines are completely buried within and surrounded by the substrate *on all surfaces*.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 3-7 and 15-22 are further rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi in view of Wen, Rodgers and Saitoh, all of record, for the reasons stated in the previous action, hereby incorporated by reference. Since the claims do not appear to require that all parts of the bit lines are completely surrounded by the substrate, the combined references would appear to meet the claimed limitations.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew